- 200 USER
- 50 USER TERMINAL
- 1 PLAYER
- 210 SYSTEM ADMINISTRATION COMPANY
- 211 ADMINISTRATION CENTER
- 212 STORE
- 220 FINANCE ORGANIZATION
- 230 VIRTUAL STORE
- 240 CONTENT PROVIDER

FIG. 2

- 2 ANALOG OUTPUT TERMINAL
- 3 PC INTERFACE TERMINAL
- 4 STORAGE MEDIUM I/O TERMINAL
- 5 BATTERY
- 6 INPUT KEY
- 7 DISPLAY DEVICE
- 14 PASSWORD
- 16 CONTROLLER
- 17 ROM
- 18 TIMER
- 20 PUBLIC-KEY ENCODING/DECODING CIRCUIT
- 21 COMMUNICATION-KEY STORAGE MEMORY

- 22 COMMON-KEY STORAGE MEMORY
- 23 USER ID
- 24 COMMON-KEY ENCODING/DECODING CIRCUIT
- 25 BUFFER
- 25 HASH FUNCTION CIRCUIT
- 26 CONTENT DECOMPRESSING CIRCUIT
- 27 D/A CONVERTING CIRCUIT
- 28 POINT INFORMATION (BALANCE)
- 29 POINT USAGE INFORMATION (COPYRIGHT HOLDER)

- 100 CONTENT ADMINISTRATION FUNCTION
- 101 CONTROL FUNCTION
- 102 DATABASE, CONTENT ID, CONTENT KEY, USE CONDITION, COPYRIGHT HOLDER
- 103 CONTENT KEY AND ID GENERATING FUNCTION
- 104 CONTENT ENCODING AND COMPRESSING FUNCTION
- 105 CONTENT DISPLAY FUNCTION
- 110 USER ADMINISTRATION FUNCTION
- 111 CONTROL FUNCTION
- 112 DATABASE, USER ID, USER PERSONAL INFORMATION, USER SETTLEMENT INFORMATION, INFORMATION TRANSFER HISTORY, USER PLAYER-UNIQUE KEY, SECURITY-ASSOCIATED DATA, PUBLIC KEY SEND POINT, OTHERS.

- 113 POINT GENERATING FUNCTION
- 114 COMMUNICATION STATEMENT ENCODING/DECODING FUNCTION
- 115 CONFIRMATION MESSAGE GENERATING FUNCTION
- 116 SECURITY ID GENERATING FUNCTION
- 117 SETTLEMENT BILLING FUNCTION
- 118 USER SUBSCRIPTION PROCESSING FUNCTION
- 120 USAGE INFORMATION ADMINISTRATION FUNCTION
- 121 CONTROL FUNCTION
- 122 DATABASE, COPYRIGHT HOLDER, CONSUMED POINT COUNT, OTHERS.
- 123 USAGE INFORMATION COMPUTING FUNCTION
- 130 ADMINISTRATION FUNCTION
- 131 CONTROL FUNCTION
- 132 COMMUNICATION WITH FINANCE ORGANIZATION
- 133 COMMUNICATION WITH USER TERMINAL
- 134 COMMUNICATION WITH PROPRIETOR AND OTHERS

200 USER

- 50 USER TERMINAL
- 1 PLAYER
- 210 SYSTEM ADMINISTRATION COMPANY
- 211 ADMINISTRATION CENTER
- 212 STORE

- 220 FINANCE ORGANIZATION
- (1) PERSONAL INFORMATION/FEE
- (5) SELLS PLAYER
- (2) REGISTER PERSONAL INFORMATION AND PLAYER-UNIQUE NUMBER (KEY)
- (3) CONFIRM ACCOUNT NUMBER AND CREDIT NUMBER
- (4) INFORMATION INDICATING THAT ACCOUNT CAN BE OPENED WITH USER

200 USER

50 USER TERMINAL

- 1 PLAYER
- 210 SYSTEM ADMINISTRATION COMPANY
- 211 ADMINISTRATION CENTER
- 230 VIRTUAL STORE
- 240 CONTENT PROVIDER
- (1) CONTENT SEARCH, SELECT, EDIT AND ORDER
- (6) SUPPLY CONTENT
- (2) REQUEST FOR CONTENT SUPPLY
- (5) SUPPLY MANIPULATED CONTENT
- (3) REQUEST FOR CONTENT SUPPLY
- (4) SUPPLY CONTENT

- FIG. 6
- 200 USER
- 50 USER TERMINAL
 - 1 PLAYER
 - 210 SYSTEM ADMINISTRATION COMPANY
 - 211 ADMINISTRATION CENTER
 - 220 FINANCE ORGANIZATION
 - 240 CONTENT PROVIDER
- (1) ENCODED POINT REPLENISH REQUEST AND USED POINT COPYRIGHT HOLDER INFORMATION
- (5) ENCODED POINT REPLENISH INSTRUCTION
- (3) SETTLEMENT OK INSTRUCTION
- (2) CONFIRM SETTLEMENT OF REPLENISHED POINT
- (4) NOTIFY COPYRIGHT HOLDER OF POINT COUNT
- FIG. 7
- 200 USER
- 50 USER TERMINAL
- 1 PLAYER
- 210 SYSTEM ADMINISTRATION COMPANY
- 211 ADMINISTRATION CENTER
- 220 FINANCE ORGANIZATION
- 230 VIRTUAL STORE
- 240 CONTENT PROVIDER

- (1) REQUEST FOR PAYING FEE
- (2) PAY FEE
- (3) SEND FEE
- (4) PAY COPYRIGHT FEE ACCORDING TO POINT
- (5) PAY STORE COMMISSION

START

ST1 WAIT FOR STARTING SOFTWARE OF USER TERMINAL FOR POINT PURCHASING.

ST2 RECEIVE INFORMATION INPUTTED IN USER TERMINAL.

ST3 COMPARE WITH BUILT-IN PASSWORD AND CONFIRM.

ST4 GENERATE SECURITY ID, PURPOSE OF POINT PURCHASE, AND POINT COUNT TO BE PURCHASED.

ST5 REQUEST FOR POINT AND ENCODE POINT USAGE INFORMATION. ST6 ATTACH USER ID.

ST7 TRANSFER THE GENERATED DATA TO USER TERMINAL.

ST8 RECEIVE DATA FROM ADMINISTRATION CENTER THROUGH USER TERMINAL.

ST9 DECODE THE DATA.

ST10 CHECK SECURITY ID.

ST11 CORRECT THE POINT.

ST12 GENERATE SIGN INDICATING PROCESSING COMPLETION AND ENCODE THE GENERATED SIGN.

ST13 TRANSFER THE ENCODED SIGN TO USER TERMINAL.

END

PROCESSING FLOW IN PLAYER AT PURCHASING POINT

FIG. 9

START

ST21 START SOFTWARE FOR POINT PURCHASING.

ST22 TRANSFER INPUT INFORMATION SUCH AS PASSWORD AND POINT COUNT TO BE PURCHASED.

ST23 RECEIVE DATA GENERATED BY PLAYER.

ST24 TRANSFER THE DATA COMING FROM PLAYER TO ADDRESS OF ADMINISTRATION CENTER.

ST25 TRANSFER DATA TO BE SENT FROM ADMINISTRATION CENTER TO PLAYER TO PLAYER DIRECTLY.

ST26 RECEIVE SIGN INDICATING PROCESSING COMPLETION FROM PLAYER.

ST27 DISPLAY AND CONFIRM THE SIGN.

ST28 TRANSFER CRYPTOGRAPH OF THE SIGN TO ADMINISTRATION CENTER.

END

PROCESSING FLOW IN USER TERMINAL AT POINT PURCHASING

FIG. 10

START

ST31 RECEIVE DATA FROM USER TERMINAL.

ST32 BASED ON USER ID, OBTAIN COMMON KEY AND SECURITY ID FROM DATABASE.

ST33 DECODE THE CRYPTOGRAPH AND CHECK VALIDITY AND CONTENTS.

ST34 ISSUE POINT AND PREPARE BILLING FOR USER SETTLEMENT ORGANIZATION.

ST35 FROM POINT BALANCE AND POINT USAGE INFORMATION,

CONFIRM THAT THERE IS NO ILLEGALITY AND REORGANIZE THE

INFORMATION.

ST36 COMPUTE SECURITY ID AND ENCODE THE SAME ALONG WITH POINT INFORMATION.

ST37 TRANSFER DATA TO PLAYER THROUGH USER TERMINAL.

ST38 RECEIVE SIGN INDICATING PROCESSING COMPLETION.

ST39 BASED ON THE SIGN, REQUEST SETTLEMENT.

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT POINT PURCHASING

FIG. 11

PLAYER USER TERMINAL ADMINISTRATION CENTER

TRANSFER INPUT INFORMATION T1

TRANSFER CREATED DATA T2

TRANSFER DATA T3

TRANSFER WITHOUT CHANGE T5 TRANSFER DATA T4

TRANSFER SIGN T6

TRANSFER SIGN CRYPTOGRAPH T7

SEQUENCE AT POINT PURCHASING

FIG. 12

START

ST41 WAIT FOR STARTING SOFTWARE OF USER TERMINAL FOR OBTAINING CONTENT.

ST42 RECEIVE CONTENT (RECEIVE ENCODED CONTENT AND CONTENT

ST43 STORE THE RECEIVED CONTENT INTO STORAGE MEDIUM.

END

PROCESSING FLOW IN PLAYER AT OBTAINING CONTENT

FIG. 13

START

ST51 START SOFTWARE FOR OBTAINING CONTENT.

ST52 ACCESS ADMINISTRATION CENTER.

ST53 SPECIFY DESIRED CONTENT.

ST54 TRANSMIT CONTENT SPECIFYING INFORMATION.

ST55 RECEIVE THE CONTENT FROM ADMINISTRATION CENTER (

RECEIVE THE ENCODED CONTENT AND CONTENT ID).

ST56 STORE THE RECEIVED CONTENT.

ST57 TRANSFER THE CONTENT TO PLAYER (TRANSMIT THE ENCODED CONTENT AND CONTENT ID).

END

PROCESSING FLOW IN USER TERMINAL AT OBTAINING CONTENT

FIG. 14

START

ST61 RECEIVE THE CONTENT SPECIFYING INFORMATION FROM USER TERMINAL.

ST62 TRANSMIT THE CONTENT TO USER TERMINAL (TRANSMIT THE ENCODED CONTENT AND CONTENT ID).

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT OBTAINING
CONTENT

FIG. 15

PLAYER USER TERMINAL ADMINISTRATION CENTER

TRANSFER CONTENT SPECIFYING INFORMATION T11

TRANSFER CONTENT T12

TRANSFER CONTENT T13

SEQUENCE AT OBTAINING CONTENT

FIG. 16

START

ST71 START SOFTWARE OF USER TERMINAL FOR OBTAINING CONTENT KEY.

ST72 RECEIVE CONTENT SPECIFYING INFORMATION FROM USER TERMINAL.

ST73 GENERATE ID OF SPECIFIED CONTENT, USER ID, ENCODED MESSAGE, AND SECURITY ID.

ST74 TRANSFER GENERATED DATA TO USER TERMINAL.

ST75 RECEIVE ENCODED DATA COMING FROM ADMINISTRATION CENTER
THROUGH USER TERMINAL.

ST76 DECODE THE DATA AND CHECK VALIDITY.

ST77 STORE THE DECODED DATA INTO COMMON-KEY STORAGE MEMORY ALONG WITH CONTENT ID.

ST78 GENERATE MESSAGE INDICATING THAT THE KEY HAS BEEN OBTAINED AND ENCODES THE MESSAGE.

ST79 TRANSMIT THE ENCODED MESSAGE TO USER TERMINAL.

END

PROCESSING FLOW IN PLAYER AT OBTAINING CONTENT KEY.

FIG. 17

START

ST81 START SOFTWARE FOR OBTAINING CONTENT KEY.

ST82 GENERATE INFORMATION FOR SPECIFYING DESIRED CONTENT.

ST83 TRANSMIT THE CONTENT SPECIFYING INFORMATION TO PLAYER.

ST84 RECEIVE DATA GENERATED IN PLAYER.

ST85 TRANSFER DATA COMING FROM PLAYER TO ADDRESS OF ADMINISTRATION CENTER.

ST86 RECEIVE ENCODED DATA COMING FROM ADMINISTRATION CENTER.

ST87 TRANSFER THE ENCODED DATA COMING FROM ADMINISTRATION CENTER TO PLAYER.

ST88 RECEIVE MESSAGE FROM PLAYER.

ST89 DISPLAY THAT THE KEY HAS BEEN OBTAINED.

ST90 SEND ENCODED DATA TO ADMINISTRATION CENTER.

END

PROCESSING FLOW IN USER TERMINAL AT OBTAINING CONTENT KEY AND USE CONDITION

FIG. 18

START

ST91 RECEIVE DATA GENERATED BY PLAYER AND TRANSMITTED THROUGH USER TERMINAL.

ST92 DECODE THE RECEIVED DATA AND CHECK VALIDITY.

ST93 ENCODE CONTENT KEY SPECIFIED BY CONTENT ID, USE CONDITION, AND SECURITY ID.

ST94 SEND THE ENCODED DATA TO PLAYER THROUGH USER TERMINAL.

ST95 RECEIVE THE ENCODED DATA FROM USER TERMINAL.

ST96 CONFIRM THAT THE CONTENT KEY HAS BEEN OBTAINED.

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT OBTAINING CONTENT KEY AND USE CONDITION

FIG. 19

PLAYER USER TERMINAL ADMINISTRATION CENTER

TRANSFER CONTENT SPECIFYING INFORMATION T21

TRANSFER GENERATED DATA T22

TRANSFER GENERATED DATA T23

SEND ENCODED DATA T25 SEND ENCODED DATA T24

TRANSFER MESSAGE T26

SEND ENCODED DATA T27

SEQUENCE OF OBTAINING CONTENT KEY AND USE CONDITION

FIG. 20

START

ST101 SPECIFY DESIRED CONTENT FOR STORAGE MEDIUM.

ST102 ACCESS STORAGE MEDIUM TO READ ID OF THE DESIRED CONTENT.

ST103 CHECK FOR CONTENT KEY AND USE CONDITION.

ST104 DECODE ENCODED CONTENT KEY AND USE CONDITION.

ST105 BASED ON THE DECODED USE CONDITION, CHECK BALANCE OF POINT.

ST106 DECREMENT SPECIFIED POINT AND WRITE NEW PROPRIETOR OF THE DECREMENTED POINT TO POINT USAGE INFORMATION ALONG WITH POINT COUNT AND OTHER INFORMATION.

ST107 CONFIRM COMPLETION OF BILLING PROCESSING.

ST108 READ THE CONTENT FROM STORAGE MEDIUM.

ST109 TRANSFER THE CONTENT TO COMMON-KEY ENCODING/DECODING CIRCUIT.

ST110 USING THE DECODED CONTENT KEY, DECODE THE CONTENT.

ST111 DECOMPRESS THE DECODED CONTENT.

ST112 PERFORM D/A CONVERSION.

ST113 OUTPUT.

END

PROCESSING FLOW IN PLAYER AT VIEWING CONTENT

FIG. 21

START

ST121 WAIT FOR STARTING SOFTWARE OF USER TERMINAL FOR RETURNING USAGE INFORMATION.

ST122 RECEIVE INPUT INFORMATION SUCH AS PASSWORD INPUTTED IN USER TERMINAL.

ST123 COMPARE WITH BUILT-IN PASSWORD AND CONFIRM.

ST124 ENCODE POINT BALANCE AND POINT USAGE INFORMATION.

ST125 ATTACH USER ID.

ST126 TRANSFER GENERATED DATA TO USER TERMINAL.

ST127 RECEIVE THE DATA COMING FROM ADMINISTRATION CENTER THROUGH USER TERMINAL.

ST128 CHECK SECURITY ID.

ST129 CHECK MESSAGE INDICATING COMPLETION OF PROCESSING.

END

PROCESSING FLOW IN PLAYER AT RETURNING USAGE INFORMATION

FIG. 22

START

ST131 START SOFTWARE FOR RETURNING USAGE INFORMATION.

ST132 TRANSFER INPUT INFORMATION SUCH AS PASSWORD TO

PLAYER.

ST133 RECEIVE DATA GENERATED BY PLAYER.

ST134 TRANSFER THE DATA COMING FROM PLAYER TO ADDRESS OF ADMINISTRATION CENTER.

ST135 TRANSFER THE DATA TO BE SENT FROM ADMINISTRATION CENTER TO PLAYER DIRECTLY TO PLAYER.

ST136 DISPLAY COMPLETION OF PROCESSING AND CONFIRM.

END

PROCESSING FLOW IN USER TERMINAL AT RETURNING USAGE INFORMATION

FIG. 23

....

START

ST141 RECEIVE DATA FROM USER TERMINAL

ST142 BASED ON USER ID, OBTAIN COMMON KEY AND SECURITY ID.

ST143 DECODE CRYPTOGRAPH AND CHECK VALIDITY AND CONTENTS OF THE DECODED DATA.

ST144 FROM POINT BALANCE AND USAGE INFORMATION, CONFIRM THAT THERE IS NO ILLEGALITY AND REORGANIZE THE INFORMATION. ST145 COMPUTE SECURITY ID AND ENCODE THE SAME ALONG WITH MESSAGE INDICATING COMPLETION OF PROCESSING.

ST146 TRANSFER THE DATA TO PLAYER THROUGH USER TERMINAL.

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT RETURNING USAGE INFORMATION

FIG. 24

PLAYER USER TERMINAL ADMINISTRATION CENTER

TRANSFER INPUT INFORMATION T31

TRANSFER GENERATED DATA T32

TRANSFER GENERATED DATA T33

TRANSFER DATA T35

TRANSFER DATA T34

SEQUENCE OF RETURNING USAGE DATA

FIG. 25

START

ST151 INPUT ENCODED/COMPRESSED DATA.

ST152 PERFORM BIT DIVISION.

(1cm(X,Y)BIT ENCODED/COMPRESSED DATA)

ST153 DECODE CRYPTOGRAPH

(1cm(X,Y)BIT COMPRESSED DATA)

ST154 DECOMPRESS.

(1cm(X,Y)BIT DATA)

ST155 ALL DATA PROCESSED?

END

FIG. 26

16 CONTROLLER

ENCODED/COMPRESSED DATA

- 30 INPUT
- 31 DECODE (IN UNIT OF 64 BITS)
- 25 BUFFER MEMORY (1.28K BITS)
- 32 DECOMPRESS (IN UNIT OF 1.28K BITS)
- 33 OUTPUT

DECODED/DECOMPRESSED DATA

FIG. 27

- 40 GENERATE UNIDIRECTIONAL FUNCTION
- 41 GENERATE USER CONSTANT

TIMER OUTPUT 43 DETERMINE RANDOM NUMBER

RANDOM NUMBER (SECURITY ID)

- 42 RANDOM NUMBER DATABASE
- 44 STORE COMMUNICATION COUNT

COMMUNICATION COUNT INFORMATION

P1 MESSAGE M

P2 CALCULATE HASH VALUE

HASH VALUE (M)

P4 ENCODE SECRET KEY

P5 GENERATE RANDOM NUMBER

P6 ENCODE COMMON KEY

P7 GENERATE COMMON KEY FOR COMMUNICATION

P8 ENCODE PUBLIC KEY

PUBLIC KEY OF THE OTHER PARTY (COMMON KEY)

COMMON KEY FOR COMMUNICATION (M, OWN SECRET KEY (HASH VALUE (M)), RANDOM NUMBER

STATEMENT TO SEND

FIG. 29

PUBLIC KEY OF THE OTHER PARTY (COMMON KEY)

COMMUNICATION COMMON KEY (M, OWN SECRET KEY (HASH VALUE (M)), RANDOM NUMBER

RECEIVED STATEMENT

P11 DECODE SECRET KEY COMMUNICATION COMMON KEY

P13 DECODE COMMON KEY

MESSAGE M

P14 DECODE PUBLIC KEY

P17 CALCULATE HASH VALUE

HASH VALUE (M) HASH VALUE (M)

- P19 COMPARE AND CONFIRM NO TAMPER
- P21 GENERATE RANDOM NUMBER
- P20 SET MESSAGE M TO ANOTHER FUNCTION
- P22 COMPARE RANDOM NUMBER AND CONFIRM VALIDITY

FIG. 30

- 200 USER
- 310 CONTENT DISPLAY AND DISTRIBUTION
- 320 BILLING INFORMATION ADMINISTRATION
- 330 SYSTEM ADMINISTRATION

FIG. 31

- 200 USER
- 401 COMMUNICATION FUNCTION
- 402 USER SUBSCRIPTION SUPPORT FUNCTION
- 404 CONTENT DISTRIBUTING FUNCTION
- 405 COLLECTING AND DISTRIBUTING FUNCTION
- 403 DATABASE FUNCTION
- SEND SUBSCRIPTION INTENTION T41
- SEND SUBSCRIPTION NECESSARY FILE T42
- SEND SUBSCRIPTION APPLICATION T43
- SEND CLIENT FUNCTION T44
- SEND USER INFORMATION T45

NOTIFY REGISTRATION PROCEDURE COMPLETION T46

- 361 COMMUNICATION FUNCTION
- 362 CONTENT KEY & USE CONDITION RECEIVING FUNCTION
- 364 CONTENT KEY & USE CONDITION ISSUING FUNCTION
- 365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION
- 366 DISTRIBUTION RECEIPT FUNCTION
- 367 DATABASE FUNCTION

USER INFORMATION T47

- FIG. 32
- 200 USER
- 361 COMMUNICATION FUNCTION
- 362 USE RIGHT ISSUING FUNCTION
- 363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION
- 364 CONTENT KEY & USE CONDITION ISSUING FUNCTION
- 365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION
- 366 DISTRIBUTION RECEIVING FUNCTION
- 367 DATABASE FUNCTION
- SEND PURCHASE REQUEST T51
- SEND NEW USE RIGHT T52
- SEND RECEIPT CONFIRMATION T53
- FIG. 33
- 341 COMMUNICATION FUNCTION
- 342 CONTENT OBTAINING FUNCTION

- 343 CONTENT DISPLAYING FUNCTION
- 344 SETTLEMENT FUNCTION
- 345 CONTENT DATABASE

SEND CONTENT BILL T62

SEND CONTENT T63

- 401 COMMUNICATION FUNCTION
- 402 USER SUBSCRIPTION SUPPORT FUNCTION
- 404 CONTENT DISTRIBUTING FUNCTION
- 405 COLLECTING AND DISTRIBUTING FUNCTION
- 403 DATABASE FUNCTION

FREELY ACCESS ANY CONTENT DISPLAYING AND DISTRIBUTING

ORGANIZATION, FREELY OBTAIN CONTENT T61

SEND CONTENT ID, USE CONDITION, AND CONTENT KEY T64

- 361 COMMUNICATION FUNCTION
- 362 USE RIGHT ISSUING FUNCTION
- 363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION
- 364 CONTENT KEY & USE CONDITION ISSUING FUNCTION
- 365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION
- 366 DISTRIBUTION RECEIVING FUNCTION
- 367 DATABASE FUNCTION

REQUEST FOR USE CONDITION AND CONTENT KEY T65

200 USER

SEND USE CONDITION AND CONTENT KEY T66

- FIG. 34
- 401 COMMUNICATION FUNCTION
- 402 USER SUBSCRIPTION SUPPORT FUNCTION
- 404 CONTENT DISTRIBUTING FUNCTION
- 405 COLLECTING AND DISTRIBUTING FUNCTION
- 403 DATABASE FUNCTION

RECORD USER SETTLEMENT INFORMATION AND CONTENT USAGE T72

- 361 COMMUNICATION FUNCTION
- 362 USE RIGHT ISSUING FUNCTION
- 363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION
- 364 CONTENT KEY & USE CONDITION ISSUING FUNCTION
- 365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION
- 366 DISTRIBUTION RECEIVING FUNCTION
- 367 DATABASE FUNCTION
- 200 USER
- SEND SETTLEMENT T71
- SEND SETTLEMENT CONFIRMATION T73
- FIG. 35
- 341 COMMUNICATION FUNCTION
- 342 CONTENT OBTAINING FUNCTION
- 351 CONTENT BILL GENERATING FUNCTION
- 352 CONTENT RECEIPT GENERATING FUNCTION
- 353 CONTENT DATABASE CORRESPONDING FUNCTION

- 343 CONTENT DISPLAYING FUNCTION
- 354 CONTENT DISPLAYING FUNCTION
- 355 CONTENT DATABASE CORRESPONDING FUNCTION
- 344 SETTLEMENT FUNCTION
- 356 RECEIPT FUNCTION
- 357 FINANCE ORGANIZATION CORRESPONDING FUNCTION
- 345 CONTENT DATABASE
- FIG. 36
- 361 COMMUNICATION FUNCTION
- 362 USE RIGHT ISSUING FUNCTION
- 371 PURCHASE REQUEST CONFIRMING FUNCTION
- 372 FUNCTION TO CONFIRM DATA SUCH AS CLIENT USE BALANCE AND

USAGE RECORD

- 373 USE RIGHT GENERATING FUNCTION
- 374 USE RIGHT SENDING NOTICE GENERATING FUNCTION
- 375 FUNCTION TO SEND USE RIGHT AND USE RIGHT SENDING NOTICE
- 376 USE RIGHT RECEIPT CONFIRMING FUNCTION
- 377 USE RIGHT ISSUE INFORMATION STORING FUNCTION
- 363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION
- 378 CONTENT KEY & USE CONDITION RECEIVING FUNCTION
- 379 CONTENT KEY & USE CONDITION STORING FUNCTION
- 364 CONTENT KEY & USE CONDITION ISSUING FUNCTION
- 380 CONTENT KEY & USE CONDITION OBTAIN REQUEST RECEIVING

FUNCTION

- 381 CONTENT KEY & USE CONDITION SEARCHING FUNCTION
- 382 CONTENT KEY & USE CONDITION SENDING FUNCTION
- 383 CONTENT KEY & USE CONDITION RECEIPT CONFIRMING FUNCTION
- 365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION
- 384 CONTENT USE RECORD RECEIVING FUNCTION
- 385 CONTENT USE RECORD CONFIRMING FUNCTION
- 386 CONTENT USE RECORD STORING FUNCTION
- 387 SETTLEMENT PROCEDURE COMPLETION NOTICE GENERATING

FUNCTION

- 389 CONTENT USE RECORD SUMMARIZING FUNCTION
- 366 DISTRIBUTION RECEIPT FUNCTION
- 390 COLLECTION DATA REQUEST CONFIRMING FUNCTION
- 391 CONTENT USE RECORD REPORT GENERATING FUNCTION
- 392 USE RIGHT ISSUE INFORMATION REPORT GENERATING FUNCTION
- 393 REPORT RECEIVE CONFIRMATION CONFIRMING FUNCTION
- 367 DATABASE FUNCTION
- 394 USE RIGHT DATABASE FUNCTION
- 395 KEY & USE CONDITION DATABASE FUNCTION
- 396 CONTENT USE RECORD DATABASE FUNCTION
- 397 USE ADMINISTRATION DATABASE FUNCTION

FIG. 37

401 COMMUNICATION FUNCTION

- 402 USER SUBSCRIPTION SUPPORT FUNCTION
- 411 SUBSCRIPTION APPLICATION GENERATING AND SENDING

FUNCTION

- 412 COMMON KEY RECEIVING FUNCTION
- 413 SUBSCRIPTION APPLICATION CONFIRMING FUNCTION
- 414 CLIENT ID GENERATING FUNCTION
- 415 SUBSCRIPTION APPLICATION STORING FUNCTION
- 416 CLIENT FUNCTION GENERATING FUNCTION
- 417 REGISTRATION INFORMATION STORING FUNCTION
- 403 DATABASE FUNCTION
- 418 USER ADMINISTRATION DATABASE FUNCTION
- 419 CONTENT DATABASE FUNCTION
- 420 BILL INFORMATION ADMINISTRATION FUNCTION DATABASE

FUNCTION

- 421 CONTENT DISPLAYING & DISTRIBUTING FUNCTION
- ADMINISTRATION DATABASE FUNCTION
- 404 CONTENT DISTRIBUTING FUNCTION
- 422 CONTENT REQUEST CONFIRMING FUNCTION
- 423 RAW CONTENT SEARCHING FUNCTION
- 424 CONTENT ID GENERATING FUNCTION
- 425 CONTENT KEY GENERATING FUNCTION
- 426 CONTENT USE CONDITION GENERATING FUNCTION
- 427 RAW CONTENT COMPRESSING FUNCTION
- 428 CONTENT MANIPULATING FUNCTION

- 429 CONTENT ID, KEY & USE CONDITION STORING FUNCTION
- 430 CONTENT SENDING FUNCTION
- 431 CONTENT RECEIPT CONFIRMING FUNCTION
- 432 CONTENT ID, KEY & USE CONDITION SENDING FUNCTION
- 433 CONTENT ID, KEY & USE CONDITION RECEIPT CONFIRMING

FUNCTION

- 405 COLLECTING AND DISTRIBUTING FUNCTION
- 434 COLLECT DATA REQUEST GENERATING FUNCTION
- 435 CONTENT USE RIGHT RECEIVING FUNCTION
- 436 CONTENT USE RECORD RECEIVING FUNCTION
- 437 RECEIVE CONFIRMATION GENERATING FUNCTION
- 438 USER BILLED FEE CALCULATING AND BILL GENERATING

FUNCTION

- 439 FUNCTION TO CALCULATE AMOUNT OF MONEY TO BE DISTRIBUTED
- TO USE RIGHT GRANTING PARTY AND GENERATE PAYMENT NOTICE

FIG. 38

- 451 COMMUNICATION FUNCTION
- 452 CONTENT OBTAINING FUNCTION
- 461 CONTENT OBTAINING FUNCTION
- 462 CONTENT STORING FUNCTION
- 453 USE RIGHT PURCHASING FUNCTION
- 463 PURCHASE REQUEST GENERATING FUNCTION
- 464 FUNCTION TO SUMMARIZE DATA SUCH AS CLIENT USE RIGHT

BALANCE AND USE RECORD

- 465 USE RIGHT INSTALLING FUNCTION
- 457 USE RIGHT RECEIPT GENERATING FUNCTION
- 454 CONTENT KEY & USE CONDITION OBTAINING FUNCTION
- 468 CONTENT KEY & USE CONDITION OBTAIN REQUEST GENERATING

FUNCTION

- 469 CONTENT KEY & USE CONDITION RECEIVING FUNCTION
- 470 CONTENT KEY & USE CONDITION RECEIPT GENERATING FUNCTION
- 455 SETTLEMENT PROCEDURE FUNCTION
- 471 CONTENT USE RECORD SUMMARIZING FUNCTION
- 472 SETTLEMENT PROCEDURE COMPLETION NOTICE RECEIVING

FUNCTION

- 456 USER SUBSCRIPTION SUPPORT FUNCTION
- 473 SUBSCRIPTION APPLICATION GENERATING FUNCTION
- 474 CLIENT FUNCTION INSTALLING FUNCTION
- 475 REGISTRATION INFORMATION GENERATING FUNCTION
- 457 CONTENT VIEWING BILLING FUNCTION
- 476 CONTENT SEARCHING FUNCTION
- 477 USE RIGHT CONFIRMING FUNCTION
- 478 SIMPLIFIED VIEWING FUNCTION
- 479 BILLING FUNCTION
- 480 CONTENT DECODING FUNCTION
- 481 CONTENT DECOMPRESSING FUNCTION
- 482 CONTENT VIEWER FUNCTION

- 458 DATABASE FUNCTION
- 483 USE RIGHT DATABASE FUNCTION
- 484 KEY & USE CONDITION DATABASE FUNCTION
- 485 CONTENT USE RECORD DATABASE FUNCTION
- 486 USER INFORMATION DATABASE FUNCTION

- 1 PLAYER
- 61 STORAGE MEDIUM

FIG. 40

- 62 ADAPTER
- 1 PLAYER
- 61 STORAGE MEDIUM